

**How to run Boole for Velo partial readout testbeam simulation**

Aim: take a Gauss input file (a .sim file) containing MCHits for the Velo in the testbeam setup and perform the silicon simulation and reconstruction of the clusters. The output is a .digi file that contains the 1MHz output buffer.

get Boole

```
> cd cmtuser
> BooleEnv v11r0
> LHCbEnv v20r0
> getpack Digi/Boole v11r0
> cd Digi/Boole/v11r0/
```

get options files for running in partial mode (currently only on Tomasz's area)

```
> cp ~szumlat/public/boolePartial *.opts options/.
```

compile Boole

```
> cd cmt
> cmt config
> source setup.csh
> gmake
```

pick-up the appropriate partial XmlDDDB detector description (currently on Malcolm's area)

```
> setenv XMLDDDBROOT ~mjohn/cmtuser/testBeamWork/Det/XmlDDDB/v30r0
```

then set a variable to point at the directory containing your partial readout .sim files e.g. to use those on Malcolm's area

```
> setenv Gauss_TestBeam ~mjohn/cmtuser/v20Work/Sim/Gauss/v24r1/cmt
```

run Boole with partial readout options

```
> ../$CMTCONFIG/Boole.exe ../options/VeloPart.opts
```

this will produce an output file

partialVelo.digi

and a root file containing monitoring histograms

partialVelo.root

-- Main.parkes - 23 Mar 2006

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This topic: LHCb > VeloBoolePartial

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